

**CLEAN COPY OF AMENDMENT**

**Please amend Claims 1, 3 and 19.**

A1  
Sub  
C1

1. (Amended) A medical device for treating a portion of the body of a living organism, comprising, at least one layer of conductive material,  
wherein the conductive material comprises a resistance less than about 1000 ohms/cm<sup>2</sup>;  
wherein the conductive material is at least partially composed of a polymer; and  
wherein no external energy source or galvanic cell action is required to alter an electrodynamic process of a portion of the body of a living organism.

A2

3. (Amended) The medical device of Claim 1, wherein the polymer is nylon, polyethylene, polypropylene, wool, silk, cotton, or elastomers.

A3  
Sub  
C4

19. (Amended) A method for treating a portion of the body of a living organism, comprising;  
a) applying a medical device to a portion of the body of a living organism, wherein the medical device comprises at least one layer of conductive material;  
wherein the conductive material comprises a resistance less than about 1000 ohms/cm<sup>2</sup>;  
wherein the conductive material is at least partially composed of a polymer; and  
wherein no external energy source or galvanic cell action is required to alter an electrodynamic process of a portion of the body of a living organism;  
b) altering the electric parameters of the portion of the body without using an external energy source or galvanic cell action; and  
c) lowering the electrical resistance and increasing the current of the portion of the body.

**Please add the following new claims:**

A4 -- 20. A method of treating a wound to promote healing, comprising,  
a) providing a wound dressing comprising a plurality of layers of a fibrous material, said material containing nonmetalized fibers and fibers that are at least partially coated with a metallic material to yield metalized fibers, each layer being joined to an adjacent layer and having a ratio of metalized fibers to nonmetalized fibers, wherein said layers form a gradient of metalized fiber to nonmetalized fiber ratios, the highest ratio layer capable of being placed in a contact with a wound site;

b) applying the dressing wherein the highest ratio layer is in contact with the wound.--

-- 21. A method of treating a wound to promote healing, comprising,  
a) providing a wound dressing comprising a first layer of a semipermeable fibrous material comprising a first ratio of metalized to nonmetalized fibers; a second layer of a semipermeable fibrous material comprising a second ratio of metalized to nonmetalized fibers; a third layer of a semipermeable fibrous material comprising a third ratio of metalized to nonmetalized fibers;

wherein the first ratio layer is laminated to the second ratio layer and the second ratio layer is laminated to the third ratio layer so as to form a gradient of metalized to nonmetalized ratio layers, the highest ratio layer being capable of being in contact with a wound; and

b) positioning the dressing in contact with the wound, wherein the highest ratio layer is in contact with the wound.--

-- 22. A method of treating a wound to promote healing, comprising,  
a) providing a wound dressing comprising at least one first layer of essentially silver fibers; and at least one second layer of nonconductive fibers, wherein the at least one first layer is laminated to the at least one second layer; and

b) positioning the dressing in contact with the wound wherein the at least one first layer of essentially silver fibers is in contact with the wound.--